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10/10/2003 11 35 AM

To Sandra Bron, Clair Morris, Nabil Fayoumi, namy, Ning Li, Peter Barrett, "Yai
Subject Weekly Construction Meeting - October 7, 2003

Here is a summary of the October 7 meeting Please let me know if you have any additions/corrections

Gary
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Attendees:
Barrett, Peter
Bron, Sandra
Fayoumi, Nabil
Namy, Dominique
Tilges, Dan
Vandiver, Gary
Williams, Richard

Safety

- No injuries The site is approaching 10,000 manhours without incident

Slurry Wall

- The track hoe has excavated to a maximum depth of 95 feet from station 27+50 to about 23+10 The deepest section of clamshell excavation is at bedrock at 132 ' The bedrock will be cleaned and backfill will begin today or tomorrow Inquip is about two weeks behind schedule Mechanical problems with the clamshell cranes has caused most of the delay Only one clamshell is currently available The second should be repaired by Friday this week Inquip is developing plans for how to get back on schedule Alternatives include weekend work, night work and bringing in additional equipment The plan will be ready next week
- Working with Ameren, Eagle Marine and Con Agra on the power line relocation at the south leg The wall will be angled open by a few degrees to move away from the high voltage power line support platform A Technical Memo was requested to show the realignment
- The final resolution of the stability issues is to raise the work platform by ~ 2 feet, increase slurry level 3 feet and install wick drains Wick drains are woven polypropylene fabric that will be vibrated into the ground to a depth of 35 feet As water pressure builds up from the equipment weight at ground surface the water will flow to the wick drains and down to the sand Wick drains will be installed under the crane work platform on 4-5 foot centers The design of the stabilization system will be submitted when received from Mueser Rutledge Consulting Engineers The platform installation is in progress and the wick drain installation will begin today
- The three week look ahead schedule of site activities is below

QA/QC Overview

Fresh Slurry:

Bentonite is delivered to the site by tractor-trailer loads. The bentonite is unloaded into a mixer and processed by mixing with water. The fresh newly mixed bentonite slurry is pumped from the mixer into the north slurry pond. Fresh slurry is held in the north slurry holding pond for a minimum of 30 min. to allow time for the bentonite to fully hydrate. Slurry in the north holding pond is then transferred to the south holding pond and is ready for placement into the barrier wall trench as needed.

Testing of fresh slurry:

Fresh Slurry properties are tested two times a day when trenching is in progress, once in the morning hours and once in the evening hours. The fresh slurry is tested for viscosity, density, filtration, sand content, and pH.

Testing of in-place trench slurry:

- Trench slurry "Top Sample" is taken once a day from 5ft. below the slurry surface. The trench slurry "Top Sample" is tested for viscosity, density, filtration, sand content, and pH.
- Trench slurry "Bottom Sample" is taken two times a day, once in the morning hours and once in the evening hours. The trench slurry "Bottom Sample" is tested for viscosity, density, filtration, sand content, and pH.

Bottom profile measurements:

Bottom profile measurements are taken two times a day. Usually once in the morning prior to the start of excavation and once in the evening after the excavation equipment has shut down for the day. Some additional measurements are also performed throughout the day by the clamshell. Typical bottom profile measurements are taken every 20 ft. along the barrier wall trench excavation. Bottom profile measurements will increase to every 10 ft when the rock bottom is being cleaned just prior to backfill placement.

Spoils Handling

- The berm in the spoils handling area should be complete today
- There will be an increase in spoils beyond the original estimate because dry bentonite or clean clay will be added to the backfill in order to achieve 1 x 10-7 permeability, because fly ash canot be used for backfill
- The final estimated spoils volumes must be communicated in a Technical Memo to the Agencies
- There will be some excavated soils that will be temporarily stored and then reused in backfill

Box Culvert

- The plan was to install a steel plate over the end of the box culvert outlet to contain any potential slurry leakage during excavation However, the Agencies are concerned about the penetration of the box culvert through the slurry wall and asked for a Technical Memo on the options to cut off or plug the box culvert

Stormwater Management

- The stormwater treatment system can be used if necessary but we ar estill awaiting some filters
- A stormwater discharge sampling plan needs to be submitted

GMCS Pumping System

- Pumping rates were increased to 1250 gpm today, October 7, 2003 Performance will be reviewed by ABRWTF after ~ 30 days and flow will be increased again when approved by ABRWTF

Next meeting

- Tuesday October 14 @ 10 00 am

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Sauget Groundwater Mitigation, Area 2

Three week Schedule Outlook 10/7/03

- Continue with wall excavation with KH-1266. Sta. 23+30 to 21+05 by 10/10/03, Sta. 21+05 – Sta. 18+80 by 10/17/03, Sta. 18+80 – Sta. 16+55 by 10/24/03, Sta. 16+55 – Sta. 14+30 by 10/31/03.
- Continue panel excavation with KS-1 and KS-2 resuming 10/13/03.
- Work Pad preparation from Sta. 20+00 to Sta. 11+00, fill, tensar etc
- Wick drain installation from Sta. 19+00 to Sta. 11+00.
- Determine correct wall alignment from Sta. 12+00 to 5+00.
- Pangea completeing berms in spoils area by 10/8/03.
- Pangea beginning work on box culvert from 10/7 to 10/13
- Test pits for fly ash from Sta. 11+00 to Sta. 5+00
- Beginning wall backfill operations on 10-9-03.
- Storm water management throughout site for the duration of the project
- Continuing Bentonite deliveries.

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